

A2-CentralTM Catalog

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10/88

CIRTECH plusRAM memory cards

StatDisk: Better than AppleWorks in ROM

I've always thought it would be neat to have all of the software I regularly use burned into my Apple's ROM memory. That way it would come on instantly, run at the highest possible speed, quietly, and I wouldn't have to keep track of so many disks. People who know about these things would always laugh at me, pointing out how difficult it is to update programs burned into ROM chips--you have to take the computer apart and insert new chips.

The StatDisk changes all that. You can copy, rename, and delete StatDisk files just as if they were stored on any other RAMdisk. But when you turn your computer off and back on again (even two months later), those files are still there--just like with ROM.

And, just like with ROM cards, you can actually unplug the StatDisk from your computer, plug it into another one, and the files will still be there. This opens up all kinds of interesting possibilities for using an Apple II as the "brain" for another device, as a "disk-less" computer for kids or the handicapped, as an unattended computer, or as a magical system of another type.

The more I use the StatDisk the more excited I get about it. The most typical computer user we have around here is my wife. She uses AppleWorks with several *Timeout* enhancements, *APA Manuscript Manager*, *Talk Is Cheap*, and *Copy II Plus* on an enhanced IIe. For about a year her system included a hard disk. All of her programs were on the hard disk, but for safety she saved all of her files onto floppies as well. That turned out to be a smart move, because the hard disk eventually died.

We replaced it with a 3.5 drive and a 1 meg Ram card. When she turned the computer on, the 3.5 drive would boot and load the RAM card with her software. This took a couple of minutes. Once loaded, however, her programs ran faster and much quieter than they ever had with the hard disk.

Last month I put a 1 meg StatDisk in her IIe and stole the 3.5 drive and RAM card for use elsewhere. She's happier with this system than with either of the others--there's no wait while the RAM card loads. Her software is ready before her monitor has warmed up. AppleWorks responds instantly and silently to commands that, on other machines, cause a pause

and a clatter. She saves her data on 5.25 floppies, just like she always has.

Like most things in life, however, the StatDisk isn't perfect. The static RAM chips it uses have two problems. First, they are more expensive than the dynamic RAM chips other RAMcards use. Second, they are physically larger. (Otherwise, all memory cards would be built like this one.)

Because of the size of the chips, only 512K can be plugged into the main StatDisk card. CIRTECH has a piggy-back expander for the StatDisk that holds as much as another 512K. But the two-card combination requires that the next higher slot in your computer be empty--there's just not enough room for everything.

This is particularly a problem on the IIgs, where the "natural" slot for the StatDisk is slot 7. If you have a card in the IIgs Memory Expansion Slot (doesn't everyone?), only 512K or smaller StatDisks will fit. This may be enough for many people (it's a lot more than will fit on a 5.25 floppy) and it's plenty for AppleWorks or a stripped-down IIgs System Disk. But if you want to put more than 512K of StatDisk in a IIgs, you have to use a slot other than 7. Slots 2 (if you can live without a modem) or 4 (if you can live without a mouse) might work, since slots 3 and 5 are usually empty.

On the IIe and II-Plus, on the other hand, a 1 meg StatDisk will fit into slot 7 without blocking any other slots. This is by far the best slot for a StatDisk on a IIe, anyhow, because it means your computer will automatically start up the software in the StatDisk when you flip on the IIe's power switch.

This is what the future will taste like, but only Apple II owners can enjoy one today.

plusRAM PR-1 and PR-16

CIRTECH's two PR cards are standard-slot memory cards like Applied Engineering's RamFactor or Apple's 'Slinky' memory expansion card. This type of card can be used in the II-Plus, IIe, or IIgs. The PR-1 uses standard 256K RAM chips and be expanded to 1 megabyte. The PR-16 uses standard 1-meg RAM chips and can be expanded to 4 megabytes on one card (with forthcoming 4-meg chips it can be expanded to 16 megabytes).

plusRAM GS-2 and GS-8

CIRTECH's two GS cards are designed to fit into the memory expansion slot on the Apple IIgs. The GS-2 uses standard 256K chips and can be expanded up to 2 megabytes on one card. The GS-8 uses standard 1-meg chips and can be expanded up to 8 megabytes on one card--the maximum RAM capacity of the IIgs. No other company builds a single card that can expand to 8 megabytes using standard RAM chips.

Prices good through October 31, 1988

Cards that use 256K chips:

memory supplied	PR-1. order no	GS-2 order no	\$
256K	PR-1-1	GS-2-1	219
512K	PR-1-2	GS-2-2	279
768K	PR-1-3	GS-2-3	339
1 M	PR-1-4	GS-2-4	399
1.25M	---	GS-2-5	459
1.5 M	---	GS-2-6	519
1.75M	---	GS-2-7	579
2 M	---	GS-2-8	639

Cards that use 1-meg chips:

memory supplied	PR-16 order no	GS-8 order no	\$
1 M	PR-16-1	GS-8-1	499
2 M	PR-16-2	GS-8-2	759
3 M	PR-16-3	GS-8-3	1019
4 M	PR-16-4	GS-8-4	1279
5 M	---	GS-8-5	1539
6 M	---	GS-8-6	1799
7 M	---	GS-8-7	2059
8 M	---	GS-8-8	2319

ROMdisk expansion cards

(no chips) ROM-256 \$89
(no chips) ROM-512 \$89

STAT-256 expansion cards

64K SD-256-1 \$159
128K SD-256-2 \$189
256K SD-256-3 \$249

StatDisk

memory supplied	StatDisk order no	\$
128K	SD-1	209
256K	SD-2	269
384K	SD-3	329
512K	SD-4	389
640K	SD-5	519
768K	SD-6	579
896K	SD-7	639
1M	SD-8	699

StatDisk piggyback expander

We've already included this card in the StatDisk prices shown above. This order number is for use only if you want to purchase the board separately
64K SD-P1G \$159

Unit pricing:

Buy CIRTECH's base card and stock it with your own chips, if you like. Our 256K RAM prices reflect a charge of \$7.50 per chip, installed and tested.

Unit pricing:

Buy CIRTECH's base card and stock it with your own chips, if you like. Our 1-meg RAM prices reflect a charge of \$32.50 per chip, installed and tested.

Unit pricing:

Buy CIRTECH's base card and stock it with your own chips, if you like. Our 32x8 low-power CMOS static RAM prices are \$15.00 per chip, installed and tested.

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Ordering Information

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Open-Apple back issues

Open-Apple has been published monthly since January, 1985. Single back issues are \$2 each. We currently have originals of all single back issues available, but supplies for some months are getting tight. We also have bound volumes of back issues available. Each volume holds one year's issues and includes a detailed index for that year's issues.

Open-Apple: Volume 1		
OA-001	\$14.95	Jan 1985—Jan 1986
Open-Apple: Volume 2		
OA-002	\$14.95	Feb 1986—Jan 1987
Open-Apple: Volume 3		
OA-003	\$14.95	Feb 1987—Jan 1988
Full Set Special (every issue ever published)		
FS	\$39.00	Jan 1985—current

New Stuff

Assembly Lines: The Book Program Disk (5.25)

This is the disk that accompanies Roger Wagner's **Assembly Lines: The Book**. We've carried the book for several months, you'll find it listed below under "Classic Apples--6502 Assembly Language".
DS-004 \$15.95

Apple IIgs Machine Language for Beginners Program Disk (3.5)

This is the disk that accompanies Roger Wagner's **Apple IIgs Machine Language for Beginners**. You'll find it listed below under "Apple IIgs--65816 Assembly Language".
DS-005 \$15.95

Posters

Perfect for your computer room or classroom—our posters are 17-1/2 inches by 22-1/2 inches, white stock with black ink. On each poster we've printed an enlarged Rich Tennant cartoon from **Open-Apple**.

Posters ordered together are shipped together in a mailing tube. When you buy several posters they get cheaper quickly. Look through the indicated months in your back issues to see which cartoons are available as posters.

1 poster	\$7	2 posters	\$10	3 posters	\$12
PS-001	Christmas Lizard				from Dec 1985
PS-002	Genie				from June 1986
PS-003	User Group				from August 1987

ModuNET

Build your own network

For a complete description, see our May, June, or July *Product Catalog*.

For Apple IIe Workstation Card, IIgs, ImageWriter II, Mac Plus, SE, II	
OE-001	8-pin ModuNET \$34.95
For LaserWriter, Mac 128K, 512K	
OE-002	9-pin ModuNET \$34.95

The A2 Library

Beginner's Books

TS-001	Bear: Computer Wimp	(see 8/88)	\$9.95
CB-001	Freiberger: The IIc, Your First Computer	(see 6/88)	\$9.95

Thought-Provoking Books

AW-013	Snyder: In Search of Amazing Thing	(see 6/88)	\$10.95
MB-004	Freiberger: Fire in the Valley	(see 6/88)	\$11.95
IB-001	Weishaar: Your Best Interest	(see 6/88)	\$9.95

AppleWorks Books

SY-008	Ericson: AppleWorks, Tips and Techs	(see 6/88)	\$19.95
DS-003	disk for this book	(see 8/88)	\$12.00
SY-007	Tymes: Mastering AppleWorks	(see 6/88)	\$21.95
MB-010	Matthews: AppleWorks Made Easy	(see 7/88)	\$18.95
CE-001	Thomas: ClassWorks	(see 8/88)	\$45.00

Science/Electronics Books

TB-001	Engelsher: Interfacing & Digital Exps	(see 6/88)	\$15.50
VS-001	Vernier: Build a Better Mousetrap	(see 7/88)	\$24.95
TB-003	Pellino et al: Science On Your Apple	(see 6/88)	\$14.95
TB-004	Horn: Smart Apples	(see 6/88)	\$12.95

Printers

Technical References

AW-008	Apple: ImageWriter II Technical Reference	\$19.95
AW-025	Apple: ImageWriter I/Q Technical Reference	\$22.95

PostScript

AW-007	Adobe: PostScript Lang Tutorial/Cookbook	\$16.95
AW-005	Adobe: PostScript Lang Program Design	\$22.95
AW-009	Adobe: PostScript Lang Reference Manual	\$22.95

Troubleshooting and Repair

HS-004	SAMS Computerfacts: ImageWriter I	\$24.95
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Working with Classic Apples

Applesoft

AW-010	Apple: Applesoft Tutorial (w/disk)	\$29.95
AW-021	Apple: Applesoft Programmer's Reference	\$22.95
AW-015	Dwyer: BASIC and the Personal Computer	\$16.95
MB-002	Poole: II-Plus/IIe User's Guide, 3rd Ed	\$18.95
MB-003	Poole: IIc User's Guide	\$18.95
HS-007	Irwin: Apple Programmer's Handbook	\$22.95

DOS 3.3

TB-007	Weishaar/Kersey: The DOSalk Scrapbook	\$14.95
DS-001	disk for this book	\$10.00

ProDOS 8

AW-024	Apple: BASIC Programming with ProDOS (w/disk)	\$29.95
AW-023	Apple: ProDOS 8 Tech Ref (w/disk)	\$29.95
QS-001	Worth: Beneath Apple ProDOS	(see 8/88) \$19.95
TB-006	Doms/Weishaar: ProDOS Inside and Out	(see 6/88) \$16.95
DS-002	disk for this book	\$10.00

6502 Assembly Language

AW-012	Finley/Myers: Asm Lang for Applesoft Prgrmmr	\$18.95
RW-001	Wagner: Assembly Lines: The Book	(see 6/88) \$19.95
DS-004	disk for this book	\$15.95
MB-007	Leventhal: 6502 Asmbly Lang Prog.	\$19.95
MB-008	Leventhal: 6502 Subroutines	\$19.95
SY-002	Zaks: Programming the 6502	\$17.95
SY-001	Zaks: Advanced 6502 Programming	\$16.95

Technical References

AW-003	Apple: Apple IIe Technical Reference	\$24.95
AW-004	Apple: Apple IIc Technical Reference	\$24.95
SS-002	Little: Inside the Apple IIe	\$19.95
SS-001	Little: Inside the Apple IIc	\$19.95
SY-003	Campbell: The RS-232 Solution	(see 6/88) \$18.95

Troubleshooting and Repair

HS-001	SAMS Computerfacts: II, II-Plus	\$21.95
HS-002	SAMS Computerfacts: IIe	\$21.95
HS-005	SAMS Computerfacts: IIc	\$39.95
HS-003	SAMS Computerfacts: Disk II	\$21.95
HS-006	Brenner: Apple II Troubleshooting/Repair Guide	\$19.95

Working with the Apple IIgs

Toolbox Programming

AW-011	Apple: Programmer's Intro to IIgs (w/disk)	\$32.95
AW-019	Apple: Apple IIgs Toolbox Reference, Vol 1	\$26.95
AW-006	Apple: Apple IIgs Toolbox Reference, Vol 2	\$26.95
CB-005	Gookin/Davis: Mastering the IIgs Toolbox	\$19.95
CB-007	Gookin/Davis: Adv Prog Tech for IIgs Toolbox	\$19.95

ProDOS 16

AW-020	Apple: ProDOS 16 Reference (w/disk)	\$29.95
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65816 Assembly Language

CB-002	Wagner: IIgs Machine Lang for Beginners	\$19.95
DS-005	disk for this book (3.5)	\$15.95
BB-001	Scanlon: Apple IIgs Asm Lang Programming	\$24.95
SS-003	Eyes/Lichty: Programming the 65816	\$24.95
MB-005	Fischer: 65816/65802 Asmbly Lang Prgming	\$21.95

Technical References

AW-018	Apple: Technical Introduction to the Apple IIgs	\$9.95
AW-022	Apple: Apple IIgs Firmware Reference	\$24.95
AW-002	Apple: Apple IIgs Hardware Reference	\$24.95
AW-001	Apple: Apple Numerics Reference (new edition)	\$29.95
AW-014	Apple: Human Interface Guidelines	\$14.95
AW-017	Little: Exploring the Apple IIgs	(see 6/88) \$22.95
MB-001	Fischer: Apple IIgs Tech Ref	(see 6/88) \$19.95